

in the Northwest. 26th, a. m. barometer at Marquette 29.60, or 0.26 below normal. The centre passed northeastward into Canada, followed at places by high SW. or NW. winds over the Upper Lakes and Lake Erie. Not any Signals were displayed. Maximum velocities:—San Francisco, SW. 26; Pioche, SE. 26; Umatilla, Or., W. 36; Salt Lake City, E. 36; Virginia City, SW. 32; Pike's Peak, W. 64; Denver, N. 33; North Platte, S. 50 and NW. 48; Bismark, NW. 45; Pembina, SE. 31; Milwaukee, W. 30; Cleveland, S. 28 miles.

No. X.—After high pressure No. VII had passed southeastward from Oregon on the 25th, the pressure rapidly diminished on the Pacific coast and reached its minimum the 26th; p. m. barometer at San Francisco 0.18 below normal. 27th, high winds prevailed in the afternoon at San Francisco and Red Bluff, Cal. The central depression advanced northeastward toward Dakota. 28th, p. m. barometer at Salt Lake City, 0.25 below normal. Occasionally light rains fell from Oregon and Nevada to the Northwest, with frequent high winds and gales; also frequent rains in the Southern States. 29th, the centre continued northeastward over Manitoba, with a deep barometric trough extending southward over Texas, in which heavy rains and high winds or gales were frequent. The a. m. barometer at Bismarck read 0.36 below normal. 30th, the barometric trough advanced eastward and at midnight reached from Lake Superior southwestward to Texas. Maximum velocities:—San Francisco, SW. 30; Red Bluff, NW. 27; Winnemucca, W. 41; Salt Lake City, NW. 32; Pike's Peak, NW. and SW. 44; Denver, SE. 33; North Platte, SE. 60 and NE. 44; Dodge City, S. 40; Bismarck, W. 36; St. Louis, S. 30; St. Paul, SE. 30 miles.

INTERNATIONAL METEOROLOGY.

February, 12th—54° 52' S., 64° W., severe SW. gale. 18th, 11 a. m., off west end of Wollaston Island, Patagonia, "very hard blow" from WSW.

March, 3rd—41° 23' N., 66° W., fresh gale, heavy rain, SW. squalls and heavy sea. 22nd, off Cape of Good Hope, heavy westerly gales, lasting ten days.

April, 8th—38° 31' S. (?), 31° 28' W., terrific NE. hurricane. 9th, 32° S., 29° W., very heavy "pampero" lasting 21 hours, lost sails, swept decks, bulwarks stove, &c.; 41° S., 37° W., bark "Spirit of the Morning" had chief officer washed overboard and drowned. 19th, off Port of San Nicolas, Parana river, S. A., gale. 22nd, Mauritius, Indian ocean, from 23 to 28 inches of rain fell at a few stations in the southern part of island, in about 14 hours. 30th, 53° 20' N., 30° W., heavy gale from NW. to WSW., lasted to May 17th.

May, 2nd—Paramaribo, Dutch Guiana, S. A., 11 a. m. to 12.10 p. m., E. gale. 4th, Off Tonala, Mex., Schr. "Farragut" parted anchor, drove ashore, and became total wreck during a "Norther". 4th to 9th, port of Rio Janeiro, S. A., heavy SE. sea, swell inside port greater than known since 1855; nearly all vessels dragged anchors, one brig wrecked. 12th, while on Saya de Mahla Banks, bark "Leontitia," (whaler,) experienced hurricane lasting 42 hours. 15th, 35° 50' N., 67° 43' W., 9 a. m., SE. gale, thick weather and heavy seas; 2 p. m. increased to hurricane, veered to SW. with violent squalls, seas making clean breach over ship; 6 p. m. moderated and veered to WSW.; ship steered ENE. before sea during 16th with falling barometer and increasing winds; 17th, fearful seas, crew lashed to pumps, 8 a. m. gale moderating. Bark "Advocate" left New York, 13th; was struck by hurricane on the 15th; lost all 3 masts afternoon of 16th, and was abandoned 17th 100 miles E. of Sandy Hook. 16th, 180 miles N. of Bermuda, revolving gale lasting four days, lost jib-boom, fore and main-masts, &c. 18th to 20th, 45° N., 59° W., very heavy gale. 20th, 40° 45' N., 56° 49' W., 7.35 a. m., (Wash. M. T.) moderate NE. gale, barometer 29.93; Turks' Island, Bahamas, heavy sea. 25th, 35° 18' N., 60° 20' W., heavy sea and squally. 26th, 35° 3' N., 15° 28' W., fresh NE. gale and heavy sea. 27th, 54° 47' N., 19° 33' W., NW. and NE., squally; 49° 50' N., 17° 22' W., WNW., fog, rain and high sea. 28th, 54° 00' N., 28° 08' W., NE. and SE. squally; 49° 16' N., 23° 13' W. NW., W., stormy; Paramaribo, Dutch Guiana, S. A., 3.45 to 4.15 p. m., E. and NE. gale, with heavy rains. 29th, 49° 11' N., 31° 55' W., SSE. and E. fresh gale; 54° N., 32° W., strong gales and high sea. 30th, 47° 18' N., 37° 57' W., high westerly sea; 46° 11' N., 39° 11' W., strong W. wind and high westerly sea; 49° 58' N., 16° 08' W., increasing SE. wind; Paramaribo, Dutch Guiana, S. A., 2 to 3 p. m., E. and NE. gales, with heavy rains. 31st, 47° 56' N., 44° 0' W., W. heavy squall, thick fog; 50° 37' N., 25° 18' W., fresh S. by E. gale, high sea; 45° 17' N., 42° 53' W., fresh WNW. gale, high W. sea; 44° 42' N., 43° 38' W., NW. storm, rain-squalls, very high sea; 49° 36' N., 24° 41' W., SE. wind increasing to moderate gale; 37° 50' N., 69° 30' W., heavy SE. gale. Valparaiso, S. A., bark lost foremast in "norther."

June, 1st—49° 02' N., 33° 11' W., SSW. to W. squalls; 48° 56' N., 32° 12' W., heavy W. sea. 2nd, 49° 33' N., 39° 43' W., NNW. strong gale, high W. sea; 46° 44' N., 38° 26' W., NW. stormy; 49° 09' N., 9° 29' W., SSW. rain-squalls. 3rd, 48° 06' N., 36° 20' W., NW. strong winds and squalls; 48° 50' N., 17° 39' W., rain squalls; Island of Jamaica, W. I., heavy showers, in some districts estimated at seven inches. 4th, 47° 19' N., 44° 30' W., N. to NW. squally; 47° 58' N., 25° 12' W., W. to S. wind and sea increasing. 5th, 48° 55' N., 32° W., SW. squally; 47° 25' N., 31° 52' W., SW. stormy, rain and heavy sea; 49° 25' N., 7° 33' W., fresh W. gale and rough sea. 6th, 48° 30' N., 42° 49' W., NE. to N. strong winds, squally, rain; 46° 08' N., 39° 12' W., NNW. squally; 45° 28' N., 38° 36' W., fresh NW. gales, rain; 48° 55' N., 15° 13' W., W. and SW. wind and sea increasing, heavy rain during morning. 7th, 48° 27' N., 23° 01' W., SSW. winds and high westerly swell during morning, SE. to NE. rain-squalls during evening. 8th, 43° 54' N., 56° 45' W., heavy W. swell. 9th, 41° 50' N., 60° 25' W., NW. and SSW. squally, rain; 40° 33' N., 66° 55' W., 3

a. m., heavy squall from S., dismasted vessel. 10th, 40° 40' N., 67° 12' W., squally, rain. Bark, "Serana," from New Castle, N. S. W., at San Francisco June 10th, reports, no date, lat., 38° 50' N., 168° W., hurricane beginning at SSE., ending at W. by N., lasting 48 hours, and blowing heavy for 4 days. 11th, "Schooner" Speedwell, Trinidad to Boston, thrown by current on San Felipe Reef during night, total loss. 12th, 49° 50' N., 5° 53' W., W. stormy with rain. 13th, 42° 49' N., 54° 28' W., high W. sea; 50° 03' N., 13° 50' W., high W'ly swell; 51° 04' N., 42° 13' W., SW. and NW. brisk gale, showers, heavy W. sea. 14th, bark "Loch Doon", at San Francisco from N. S. W., reports gale in long. 129° W., no date. 16th, 49° 30' N., 11° 21' W., NW. stormy. 20th, 49° 55' N., 15° 54' W., heavy NW. sea. 21st, 49° 39' N., 23° 31' W., heavy NW. sea. 22nd, 48° 45' N., 33° 30' W., high W'ly swell. 25th, 48° 30' N., 23° 14' W., heavy sea. 26th, 47° 54' N., 30° 43' W., strong NW. breeze and squally. 28th, 47° 48' N., 46° 21' W., heavy WSW. sea and thick fog; 45° 12' N., 45° 03' W., W. stormy, ship labored heavily, high sea; 51° 03' N., 24° 16' W., NW. fresh winds and squalls; 51° 02' N., 14° 46' W., fresh gale, rain and high sea. 29th, 49° 59' N., 33° 16' W., squally, rain; 50° 25' N., 21° 48' W., strong NE. gale, rain, high, confused sea.

Ice at Sea.—Steamer "Polynesian," at Liverpool, June 24th, from Montreal, reports collided with iceberg when in Straits of Belle Isle.

Ocean Currents.—S. S. "Penusylvania," running between New York and Liverpool, reports, June 15th, "strong current, setting SW., one mile per hour, to the north of the Gulf Stream, extending from Fastnet Rock, (south coast of Ireland,) to George's Bank, since April 15th; prevailing wind during same period NE. and E.

Tornado in China.—April 11th, Canton, China, terrible tornado from SW. to NE.; average breadth of track 600 feet; came from the sea in form of waterspout; struck the settlement of Stameen, and passed thence northeastward over Canton, where it caused immense damage to native portion of city; 10,000 persons reported killed. Considerable damage was also done and numbers of lives lost at the villages of Pah Hin-Hock and Pah Hock Tang, about two or three miles north of Canton, and at Fatshan.

TEMPERATURE OF THE AIR.

The isothermal lines on chart No. II illustrate the general distribution of the temperature of the air for the month. The average of the mean temperatures is slightly higher than the normal for the Pacific coast and Minnesota; about normal for the Gulf States, and below the normal in the other sections, especially in the Middle Atlantic States, Ohio valley and Tennessee.

Minimum and Maximum Temperatures, respectively: *Maine*—at Orono, 38° and 93°; Portland, 45°, 94°. *New Hampshire*—Mount Washington, 15°, 71°; Contoocookville, 39°-94°. *Vermont*—Luenburg, 34°, 90; Burlington, 37°, 94; West Charlotte, 48°, 95°. *Massachusetts*—Waltham, 37°, 92°; Wood's Holl, 46°, 81°; Somerset, 43°, 94°. *Rhode Island*—Newport, 48°, 87°; Fort Adams, 51°, 78°. *Connecticut*—New Haven, 45°, 86°; Colebrook, 46°, 88°. *New York*—Madison Barracks, 33°, 95°; Rochester, 40°, 93°; New York City, 47°, 88°; West Point, 41°, 97°. *New Jersey*—East Orange, 43°, 90°; Long Branch, 50°, 92°; Atlantic City, 45°, 85°; Atco, 52°, 94°. *Pennsylvania*—near Franklin, 32°, 88°; Philadelphia, 49°, 90°; Pittsburg, 43°, 96°. *Delaware*—Dover, 58°, 90°. *Maryland*—near Woodstock, 43°, 90°; St. Inigoes, 60°, 92; Baltimore, 51°, 92°. *District of Columbia*—Washington, 48°, 96°. *Virginia*—Wytheville, 44°, 85°; Lynchburg, 51°, 93°; Norfolk, 56°, 97°. *West Virginia*—Morgantown, 41°, 90. *North Carolina*—Roan Mt., 40°, 72°; Weldon, 61°, 98°; Wilmington, 52°, 91°. *South Carolina*—Aiken, 56°, 93°; Charleston, 64°, 90°. *Georgia*—Mc Pherson Bks., 50°, 95°; Augusta, 58°, 96°. *Florida*—St. Marks, 63°, 94°; Key West, 74°, 94°; Houston, 74°, 100°. *Alabama*—Green Spring, 62°, 94°; Montgomery, 63°, 95°; Mobile, 67°, 95°. *Mississippi*—Vicksburg, 62°, 95°; near Brookhaven, 66°, 93°. *Louisiana*—Baton Rouge Bks., 60°, 96°; Shreveport, 66°, 94; New Orleans, 71°, 92°. *Texas*—Ft. Griffin, 51°, 97°; Ft. Concho, 58°, 102°; Eagle Pass, 62°, 101°; Indianola, 63°, 98°. *Ohio*—Westerville 40°, 91°; Toledo, 47°, 92°; Cincinnati, 52°, 90°; Bellefontaine, 48°, 98°. *Kentucky*—Danville, 53° 86°; Louisville, 54°, 91°; Cloverport, 57°, 94°. *Tennessee*—Knoxville 47°, 93°; Memphis, 58°, 94°; Nashville, 52° 94°. *Arkansas*—Mt. Ida, 60°, 89°; Judsonia, 60°, 90°. *Michigan*—Ft. Brady, 33°, 87°; Litchfield, 49°, 95°; Grand Haven, 40°, 87°; Detroit, 42°, 92°. *Indiana*—Vevay, 46°, 94°; Indianapolis, 50° 91°; Richmond, 50° 100°. *Illinois*—Riley, 44°, 89°; Chicago, 50°, 85°; Cairo, 57°, 89°; Anna, 57°, 94°. *Missouri*—Lebanon, 50°, 94°; St. Louis, 53°, 90°; Corning, 54°, 92°. *Kansas*—Dodge City, 48°, 95°; Leavenworth, 49°, 91°; Ft. Wallace, 54°, 95°. *Indian Territory*—Ft. Gibson, 54°, 93°; Ft. Sill, 58°, 92°. *Wisconsin*—Ashland, 32°, 90°; Milwaukee, 45°, 83°; La Crosse, 45°, 90°. *Iowa*—Logan, 44°, 86°; Keokuk, 50°, 89°; Dubuque, 45°, 91°; Guttenburg, 48°, 94°. *Nebraska*—Ft. Hartsuff, 40°, 92°; Omaha, 46°, 89°; North Platte, 45°, 92°; near Genoa, 53°, 94°. *Minnesota*—Breckenridge, 42°, 89°; St. Anthony, 53°, 88°; Duluth, 41°, 88°. *Dakota*—Ft. Pembina, 35°, 87°; Yankton, 47°, 89°; Bismarck, 46°, 92°. *Colorado*—Pike's Peak, 15°, 44°; Denver, 43°, 93°; Ft. Lyon, 48°, 99°. *Wyoming*—Cheyenne, 35°, 86°; Ft. Fetterman, 37°, 92°. *New Mexico*—Ft. Wingate, 35°, 58°; Santa Fe, 38°, 90°. *Arizona*—Yuma, 56°, 110°. *Nevada*—Winnemucca, 36, 94°; Pioche, 39°, 90°; Camp McDermitt, 40°, 100°. *Utah*—Salt Lake City, 45°, 93°. *Montana*—Virginia City, 35°, 85°. *Idaho*—Boise City, 43°, 96°. *Oregon*—Roseburg, 43°, 96°; Umatilla, 48°, 103°; *California*—Santa Cruz, 40°, 80°; Fresno, 55°, 106°; Red Bluff, 53°, 105°; Visalia, 47°, 101°; San Diego, 51°, 76°; San Francisco, 51°, 73°.